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ID AF178459 standard; RNA; INV; 1310 BP.

XX

AC AF178459;

XX

SV AF178459.1

XX

DT 05-SEP-2000 (Rel. 65, Created)

DT 05-SEP-2000 (Rel. 65, Last updated, Version 1)

XX

DE Cryptosporidium parvum unknown mRNA sequence.

XX

KW

XX

OS Cryptosporidium parvum

OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Cryptosporidiidae;

OC Cryptosporidium.

XX

RN [1]

RP 1-1310

RA Simonsen J.N., Kramer M., Lowden C., Wilkins J.;

RT "Neutralising antigen 2 recognized by human immune sera";

RL Unpublished.

XX

RN [2]

RP 1-1310

RA Simonsen J.N., Kramer M., Lowden C., Wilkins J.;

RT

RL Submitted (16-AUG-1999) to the EMBL/GenBank/DDBJ databases.

RL Medical Microbiology, University of Manitoba, 730 William Ave, Winnipeg, MB

RL R3E 0W3, Canada

XX

CC NCBI staff are still waiting for submitters to provide appropriate

CC feature information.

XX

FH Key Location/Qualifiers

FH

FT source 1..1310

FT /db_xref="taxon:5807"

FT /organism="Cryptosporidium parvum"

XX

SQ Sequence 1310 BP; 470 A; 253 C; 206 G; 381 T; 0 other;

gcacgagatt	ttttttttc	ttttacctat	tcaatttagt	ttctttgatt	caaacgatgc	60
aaagtcatta	tttggggtaa	atccagatgg	atccggaaatt	ttgaaaaaca	tttctactaa	120
attcggaaatt	aaatttgagc	ttggcttgat	aatggtagt	tggctcgag	gtgatatttt	180
tatccttgat	aggaaacacg	ctcttgaagc	tgtaaaggat	tcaatcgctt	gtgtttctta	240
tacaaaaaca	tgttttgaaa	agaatgaagc	acattgtctt	aaaccctta	atcgcgctga	300
gaataaaaatg	acttttggtt	ctgagaaaaga	cttagcgaca	actctccaat	cttctaattc	360
tgaatattat	ctttccctta	catgaaataa	ctggcgctga	gaataaaaatg	acttttggtt	420
ctgagaaaaga	cttagcgaca	actctccaat	cttctaattc	tgaatattat	ctttccctta	480
catgaaataa	ctgatcgatg	gatttcttc	ttctttaatt	aaacatgcgc	ctataaaaaga	540

aatggccac ttgaaaataatc aagaatcaaa atattcaaaa tggaaaataatg aagccactaa	600
actcaacaaa tccagaatca ggtgggaaa acttaactca gaacccaaaac acaaaggcctc	660
atccagttgt tagaccgcat cctacagaaa agccctcaaa tgggtgaaacat caagaatctg	720
gttcagagca agcccttatt acctcaccag aaaacgaatc aagtccaaat catccttctg	780
tgacagttcc agatactgga tcagttcaaa tcccttctg ttactattcc agagactgga	840
tcagactcag atcacgcgcc ttgtgacaat tccagagact ggatcagttc aaatcatctt	900
ctgctactat accagaaaaca ggatccagct cagatcacac tctgctactt ctccagaaga	960
aggattggac tcagaacgtt accaatcact tctacagaac aaactcaaag ccagctacat	1020
atcctaacca agaaaatgaa aatcataata atcaggaagg taattcgagt ttaatacac	1080
taaatctcc aaatcaaccc aatcttcac gcaagctggc agatgtggaa agttatgggg	1140
aaaaggataa aatgggttcat ggtgagcaag taatcactaa aaatgacatt attgaagata	1200
cttcgaaaga aattagaaaac aaaatgtaaa gtatctgcat tgataaaat ggccttagcc	1260
atttccaaat atctaaatttcaactcaag taaaaaaaaa aaaaaaaaaa	1310

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ID AF178460 standard; RNA; INV; 1368 BP.

XX

AC AF178460;

XX

SV AF178460.1

XX

DT 05-SEP-2000 (Rel. 65, Created)

DT 05-SEP-2000 (Rel. 65, Last updated, Version 1)

XX

DE Cryptosporidium parvum unknown mRNA sequence.

XX

KW

XX

OS Cryptosporidium parvum

OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Cryptosporidiidae;

OC Cryptosporidium.

XX

RN [1]

RP 1-1368

RA Simonsen J.N., Kramer M., Lowden C., Wilkins J.;

RT "Neutralising antigen 1 recognized by human immune sera";

RL Unpublished.

XX

RN [2]

RP 1-1368

RA Simonsen J.N., Kramer M., Lowden C., Wilkins J.;

RT ;

RL Submitted (16-AUG-1999) to the EMBL/GenBank/DDBJ databases.

RL Medical Microbiology, University of Manitoba, 730 William Ave, Winnipeg, MB

RL R3E 0W3, Canada

XX

CC NCBI staff are still waiting for submitters to provide appropriate

CC feature information.

XX

FH Key Location/Qualifiers

FH

FT source 1..1368

FT /db_xref="taxon:5807"

FT /organism="Cryptosporidium parvum"

XX

SQ Sequence 1368 BP; 537 A; 206 C; 215 G; 410 T; 0 other;

ggcacgagaa	ttaccatctg	atagatcaa	tttacttaca	tctattttta	ctacattaaa	60
tatggagaaa	aaacagtcaa	tgagcaatcc	acaatcgaaa	aatacgaata	caagcaatac	120
caaccacaaa	gattctggtt	taaatgataa	aatatttgaa	atgattacag	atgaattcaa	180
aaaattgacc	tttagcttgt	ccaaagaatt	aatatgattcg	gtttcttcag	caattagcaa	240
gtattttagaa	ccgatcgaac	gtgatataca	tctattaagt	cgcattgtc	aggaatcgag	300
aagtctgtt	ataattatgt	taatatcaat	gaaatttcta	aaattgaaac	aatgttaag	360
gaacttccta	caagtacaaa	tgagaaatta	acaagcatcg	acacttgtat	ttcgaggcgt	420
gttggcgaat	ctagaagcgt	tcgtaaaaaa	gtgactaaat	taaataaaca	atgcgataac	480
attaactcga	atccaataga	caactttact	caagtagtag	cagattcatt	tgggacattt	540

actaatgcag ttactcaatt gcaaacaact gtaatcggt tggaaattaca gatcagtaat 600
ggaataccac taaaacgtc ttacaccaga taactcaatt acaataagag cgccccaaaa 660
catagcttg caaattgatg atgcctaaa cccaaacatt acgatcggca tttcgatag 720
caattctgga tcaatctaac tctatctcaa tcagataaga gagaatcca agcggagaat 780
gtttgtttt gaaccttgca tataagttt acccatgtgt ttgggtggat gatccagctt 840
cctattagcc atccagtaat attagaatt tcaaaaattt tgagcgatac ttttcctcat 900
ttaattgaat cttaaagac cagctgtaat tttctcaa ttagctgcat ttcagattta 960
aaattgagaa tattatggat aaaagaaacc attcactgtt ttgaaccatt tactgatact 1020
cttacaccta gtgagtaatg caaatactaa atgaaatttc agaagtatga acaaatgcat 1080
tagcattata aattcggtt gcgatgcaag taaaagcatg aactatattt tacctgcatg 1140
cttcacggat gggtcgatca tcagtatata tactagcata ttaaggcata tttagaaggac 1200
aactagaaat attacatctg gaatgaaata aattaataag gggtagaatt agatatttt 1260
catgtaaata aattagcggtt attgaggatt attcgaaata aataatagag atattaagg 1320
tagttttat taaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaa 1368

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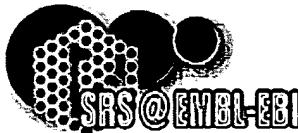
ID AQ411949 standard; DNA; GSS; 837 BP.
XX
AC AQ411949;
XX
SV AQ411949.1
XX
DT 25-MAR-1999 (Rel. 59, Created)
DT 14-MAY-2000 (Rel. 63, Last updated, Version 4)
XX
DE CpG0925A CpIOWAgDNA1 Cryptosporidium parvum genomic, genomic survey
DE sequence.
XX
KW GSS.
XX
OS Cryptosporidium parvum
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Cryptosporidiidae;
OC Cryptosporidium.
XX
RN [1]
RP 1-837
RX MEDLINE; [20183851](#).
RX PUBMED; [10717299](#).
RA Strong W.B., Nelson R.G.;
RT "Preliminary profile of the Cryptosporidium parvum genome: an expressed
RT sequence tag and genome survey sequence analysis";
RL Mol. Biochem. Parasitol. 107(1):1-32 (2000).
XX
CC Contact: Nelson, R. G.
CC Depts. of Medicine & Pharmaceutical Chemistry
CC San Francisco General Hospital-University of California, San
CC Francisco
CC Box 0811, San Francisco, CA 94143-0811, USA
CC Tel: 415 206 8846
CC Fax: 415 206 3353
CC Email: malaria@itsa.ucsf.edu
CC For Annotation Data see <http://medsfgh.ucsf.edu/id/CpTags/home.html>
CC Seq primer: M13(-21) forward
CC Class: shotgun.
XX
FH Key Location/Qualifiers
FH
FT source 1..837
FT /db_xref="taxon:5807"
FT /note="Vector: pBlueScript II (SK-); Site_1: EcoRV; C.
FT parvum (IOWA isolate) genomic DNA was hydrodynamically
FT sheared to produce fragments having a tight size
FT distribution between 2-4 kb by Dr. Yvonne Thorstenson of
FT the Stanford DNA Sequencing and Technology Center
FT ([http://sequence-
FT www.stanford.edu/group/techdev/shear.htm](http://sequence-www.stanford.edu/group/techdev/shear.htm)). The randomly

sheared gDNA was chromatographed on Sephadex S-400 to remove any small fragments and DNA eluting in the void volume was subcloned into an EcoR V-digested, alkaline phosphatase-treated pBlueScript II (SK-) vector and transformed into *E. coli* strain XL2 Blue MRF'. Recombinant clones from the first plating of the library were selected for sequence analysis using T3 and T7 primers."

/organism="Cryptosporidium parvum"
/strain="IOWA"
/clone_lib="CpIOWAgDNA1"
/lab_host="E. coli XL2 Blue MRF'"

Sequence 837 BP; 333 A; 128 C; 124 G; 252 T; 0 other;
 gttcaaatca tccttctgct actataccag aaacaggatc cagctcaat cacactcctg 60
 ctacttctcc agaagaagga ttggactcag aacgcttacc aatcaatctt acagaacaaa 120
 actcaaagcc agctacatat cctaaccaag aaaatgaaaa tcataataat caggaaggta 180
 attcgagttt taatacacta aatcttccaa atcaacccaa tctttccagc aagctggcag 240
 atgtggaaag ttatggggaa aaggataaaa tggttgatgg tgagcaagta atcaactaaaa 300
 atgacattat tgaagataact tcgaaagaaa ttagaaacaa aatgtaaagt atctgcattg 360
 ataaatatgg ccttagccat ttccaaatat ctaaattgtc aactcaagta aaattcatat 420
 tgatagttt tttaaataaaa aataatttagg attttgatcg catabcaagt gattttctga 480
 aatttagttt tattgttaat tattgtttca aaataccctc taataatttg taagatgccg 540
 aataaaaagga tatttgctt ctttgataat cccattcgat aacacaaaaat tgaagaagat 600
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 gataaaacttt aattatcaat tatagaaaaag ttctaatcaa aatgcaattt cgagcaaatt 720
 ttttaacgcac acatttggtaa caaatgaatt tttattcaaa caaaaattgt gcgctttaaa 780
 aaataataaaa attacttacc atttaggttaa taatacgtt gaaagatgca acttaag 837

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ID AQ988925 standard; DNA; GSS; 605 BP.
XX
AC AQ988925;
XX
SV AQ988925.1
XX
DT 03-FEB-2000 (Rel. 62, Created)
DT 24-AUG-2000 (Rel. 64, Last updated, Version 3)
XX
DE 25A1A08NE.F1 C. parvum Lambda Zap Express Library Cryptosporidium parvum
DE genomic clone 25A1A08NE, DNA sequence.
XX
KW GSS.
XX
OS Cryptosporidium parvum
OC Eukaryota; Alveolata; Apicomplexa; Coccidia; Eimeriida; Cryptosporidiidae;
OC Cryptosporidium.
XX
RN [1]
RP 1-605
RX • MEDLINE; [20299184](#).
RX • PUBMED; [10838221](#).
RA Widmer G., Akiyoshi D., Buckholt M.A., Feng X., Rich S.M., Deary K.M.,
RA Bowman C.A., Xu P., Wang Y., Wang X., Buck G.A., Tzipori S.;
RT "Animal propagation and genomic survey of a genotype 1 isolate of
RT Cryptosporidium parvum";
RL Mol. Biochem. Parasitol. 108(2):187-197 (2000).
XX
CC Contact: Buck GA
CC Nucleic Acids Research Facility
CC Virginia Commonwealth University
CC Box 980678, 1101 East Marshall Street, Rm 5036 Sanger Hall,
CC Richmond, VA 23298-0678, USA
CC Tel: 804 828 2318
CC Fax: 804 828 1397
CC Email: buck@hsc.vcu.edu
CC Class: plasmid ends.
XX
FH Key Location/Qualifiers
FH
FT source 1..605
FT /db_xref="taxon:5807"
FT /note="Vector: Lambda Zap Express (Stratagene); Site_1:
FT BamHI; Sau3AI partial digestion of NEMC1 genomic DNA was
FT ligated into lambda Zap Express BamHI arms treated with
FT calf intestine alkaline phosphatase. Plasmids were excised
FT as directed by the manufacturer, purified by a modified
FT alkaline lysis protocol and sequenced using PEB BigDye
FT terminators on an PEB Prism 377 DNA Sequencer."
FT /organism="Cryptosporidium parvum"

FT /strain="NEMC1, genotype 1 (human)"
FT /clone="25A1A08NE"
FT /clone_lib="C. parvum Lambda Zap Express Library"
FT /dev_stage="Oocyst"
FT /lab_host="gnotobiotically reared piglet"
XX
SQ Sequence 605 BP; 201 A; 114 C; 83 G; 201 T; 6 other;
gaaatagact acgagttctt aatactcaat gtcagcccat tactaacacg ccaattccca 60
catccccagg ttgaatactc ttcaccccg aaaaaaaaaatt taccgttatt tttgaataaa 120
ttttcttatta cagaactgtt tcagagctgt tctaaagaag ctaggttaata caaataaaata 180
aaagcttaaac ttaatatctc tattattat ttctaatagt tctcaataac gctaatttat 240
ttacatgaaa aatatctaatt tctacccctt attaattnat ttcattccag atgtaatatt 300
tctagttgcc ttctaatatg ccttaatatg ctagtaataat cactgatgat cgacccatcc 360
gtgaaggcatg cagacaata tagttcatgc ttttacttac atcgctaacc gaatttataa 420
tgctaatgca ttngccatgc tttctgaaat tcattaagta tttgcattac gtccttaggtg 480
tacgagtatc agnaaatggt cgaacagtga atggtnctt tatccataat attctcattt 540
aaatcggaan acngtaattg agaaaaatac cgtgggctta agatcattaa tgaggagaga 600
tcctc 605

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